

Application Serial No. 09/681,622
Attorney's Docket No.: 06666-033002

Amendment to the Claims:

This listing of claims replaces all prior versions, and listings, of claims in the application:

1. (Currently amended) A method, comprising:

applying a ~~focused~~ an input optical beam of specified beam size to an array of reflector elements;

reflecting said input optical beam through said array to form an output optical beam at a ~~focused~~ location; and

controlling said reflector elements using multiple digital bits, such that each change of each single digital bit changes the ~~focused~~ location where said output optical beam is directed to at least one of multiple different spaced locations, the one of the spaced locations where the beam is directed being based on said states of the multiple bits.

2. (Previously presented) A method as in claim 1, wherein said array of reflector elements includes a plurality of moving mirrors, each of which deflects said input optical beam according to said digital bits.

3. (Original) A method as in claim 2, wherein at least some of said plurality of moving mirrors are each moved by a different amount than others of said moving mirrors.

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4. (Withdrawn) A method as in claim 2, wherein said plurality of moving mirrors are each moved by the same amount.
5. (Original) A method as in claim 2 wherein each of said plurality of moving mirrors has a substantially different size.
6. (Withdrawn) A method as in claim 1, wherein said mirror array includes an array of movable mirrors, and at least one unmovable mirror, positioned in a location to reflect light from one of said movable mirrors to another of said movable mirrors.
7. (Withdrawn) A method as in claim 6, wherein said unmovable mirror is substantially flat.
8. (Withdrawn) A method as in claim 6, wherein said unmovable mirror is substantially curved.
9. (Withdrawn) A method as in claim 6, wherein said unmovable mirror includes a plurality of separated parts, collectively defining a curved profile, but each of said separated parts being substantially flat.

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10. (Withdrawn) A method as in claim 6, wherein said unmovable mirror includes a plurality of angled surfaces.

11. (Withdrawn) A method as in claim 6, wherein said angled surfaces are Fresnel surfaces.

12. (Withdrawn) A method as in claim 4, further comprising changing an angle of attack for each of a plurality of reflections.

13. (Withdrawn) A method as in claim 1, wherein said mirror array includes a first sub array of movable mirrors extending along a first specified shaped surface, and a second sub array of movable mirrors extending along a second specified shaped surface.

14. (Withdrawn) A method as in claim 13, wherein said first and second shaped surfaces are substantially flat.

15. (Withdrawn) A method as in claim 13, wherein said first and second specified shaped surfaces are substantially curved.

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16. (Withdrawn) A method as in claim 15, wherein each of said mirrors are substantially flat.

17. (Withdrawn) A method as in claim 13, wherein each of said reflector elements includes a reflective membrane which is moved between first and second positions.

18. (Withdrawn) A method as in claim 13, wherein each of said reflector elements includes first and second parts which are movable relative to one another.

19. (Currently amended) An optical device comprising:
an array arrangement of movable reflector elements which are separated from one another, and arranged such that for at least a plurality of said reflector elements, each of said plurality of reflector elements reflect toward another of said plurality of reflector elements;
a light beam producing part, projecting a light beam to said reflector elements; and
a controller for said array arrangement of reflector elements, said controller operating based on a plurality of digital bits which each change a position of a reflector element

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to thereby change a location of an output beam produced from
said light beam, to one of a plurality of different a locations
that is based on said digital bits.

20. (Withdrawn) A device as in claim 19, wherein each of
said reflector elements comprises a movable, reflective
membrane.

21. (Withdrawn) A device as in claim 19, wherein each of
said reflector elements comprises first and second parts, which
reflect light from a first location when touching one another,
and reflect light from a second location when not touching one
another, and an element for moving said first and second parts
relative to one another.

22. (Withdrawn) A device as in claim 19, further
comprising a plane mirror, which reflects between different ones
of said reflector elements.

23. (Withdrawn) A device as in claim 21, wherein said
plane mirror is substantially flat.

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24. (Withdrawn) A device as in claim 21, wherein said plane mirror is formed along a curved area.

25. (Withdrawn) A device as in claim 23, wherein said plane mirror is formed of a plurality of different mirrored elements, each of which is substantially flat.

26. (Withdrawn) A device as in claim 19, wherein each of said reflector elements are movable by different amounts.

27. (Original) A device as in claim 19, wherein each of said reflector elements are movable by different amounts.

28. (Currently amended) A device as in claim 19, wherein each of said plurality of moving ~~mirrors~~ elements has a substantially ~~different~~ same size.

29. (Previously presented) A device as in claim 19, wherein each of said plurality of movable reflector element has a substantially different size.

30. (Currently amended) An assembly comprising:

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an optical device comprising an array of movable reflector elements; and

a controller for said array of reflector elements, said controller operating based on a plurality of digital bits which operate to change a position of said array of reflector elements to produce an output beam at a position based on said digital bits;

a device wherein each of said plurality of reflector elements has a substantially different size;

a series of said movable mirrors arranged in a series with;
and

at least for a plurality of said movable mirrors, are each mirror being twice as large as a movable mirror directly prior to ~~it~~ said each movable mirror in said series.

31. (Currently amended) A method as in claim 1, wherein said applying a focused optical beam comprises applying a pencil-like beam from a laser device.

32. (Currently amended) A device as in claim 19, further comprising a laser, producing an ~~a pencil-like focused~~ output beam, directed towards one of said reflector ele

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an optical device comprising an array of movable reflector elements; and

a controller for said array of reflector elements, said controller operating based on a plurality of digital bits which operate to change a position of said array of reflector elements to produce an output beam at a position based on said digital bits;

a device wherein each of said plurality of reflector elements has a substantially different size;

a series of said movable mirrors arranged in a series with;
and

at least for a plurality of said movable mirrors, are each mirror being twice as large as a movable mirror directly prior to it said each movable mirror in said series.

31. (Currently amended) A method as in claim 1, wherein said applying a focused optical beam comprises applying a pencil-like beam from a laser device.

32. (Currently amended) A device as in claim 19, further comprising a laser, producing an ~~a pencil-like focused~~ output beam, directed towards one of said reflector elements, and

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thereafter reflected to others of said reflector elements, to
produce a pencil-like output beam at said location.